

In re of: KANZAKI 1

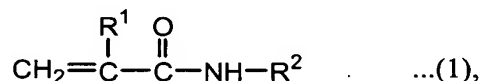
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

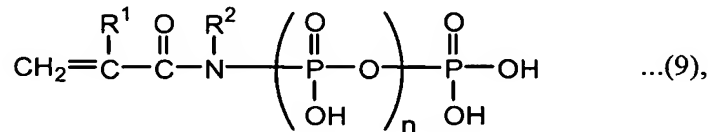
(Claims 1-33 canceled)

34 (New). A phosphorus-acid-group-containing (meth)acrylamide comprising (meth)acrylamide represented by the following formula (1):

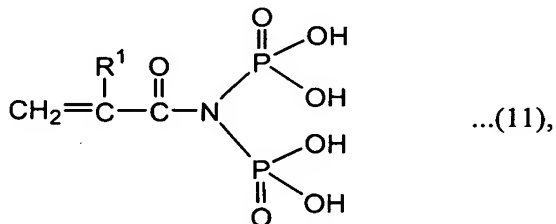


wherein R¹ is a hydrogen group or a methyl group, and R² is a hydrogen group or a substituted or unsubstituted hydrocarbon group, and a phosphorus acid group directly bonded to a nitrogen atom of an amide group in said (meth)acrylamide monomer.

35 (New). The phosphorus-acid-group-containing (meth)acrylamide according to claim 34, comprising (poly)phosphonic (meth)acrylamide represented by the following formula (9):



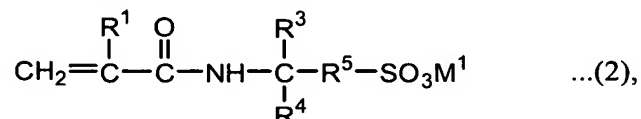
wherein R¹ is a hydrogen group or a methyl group, and R² is a hydrogen group or a substituted or unsubstituted hydrocarbon group, and n is an integer of 0-2, and/or N,N-diphosphonic (meth)acrylamide represented by the following formula (11):



wherein R¹ is a hydrogen group or a methyl.

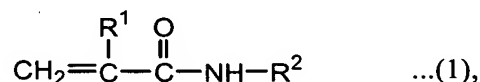
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36 (New). The phosphorus-acid-group-containing (meth)acrylamide according to claim 34, wherein said (meth)acrylamide is at least one selected from the group consisting of acrylamide, methacrylamide, and acrylamide alkane sulfonate represented by the following formula (2):



wherein R^1 is a hydrogen group or a methyl group, R^3 and R^4 are a hydrogen group or an alkyl group having 1-3 carbon atoms, R^5 is an alkylene group having 1-3 carbon atoms, and M^1 is a hydrogen group, a metal or a tertiary-amine group.

37 (New). A phosphorus-acid-group-containing (meth)acrylamide polymer obtained by polymerizing a phosphorus-acid-group-containing (meth)acrylamide monomer comprising (meth)acrylamide represented by the following formula (1):



wherein R^1 is a hydrogen group or a methyl group, and R^2 is a hydrogen group or a substituted or unsubstituted hydrocarbon group, and a phosphorus acid group directly bonded to a nitrogen atom of an amide group in said (meth)acrylamide.

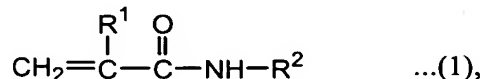
38 (New). The phosphorus-acid-group-containing (meth)acrylamide polymer according to claim 37, comprising as comonomers (a) an unsaturated compound containing one or more ethylenically unsaturated bonds and one or more acid groups in a molecule, and/or (b) an unsaturated compound containing one or more ethylenically unsaturated bonds but no acid group in a molecule.

39 (New). The phosphorus-acid-group-containing (meth)acrylamide polymer according to claim 37, wherein it is obtained by copolymerizing with (a) a phosphatized, alcoholic-hydroxyl-group-containing, unsaturated compound, and/or (b) a cross-linking agent having two or more ethylenically unsaturated bonds in a molecule.

40 (New). A conductive resin comprising a phosphorus-acid-group-containing (meth)acrylamide polymer, which is obtained by polymerizing a

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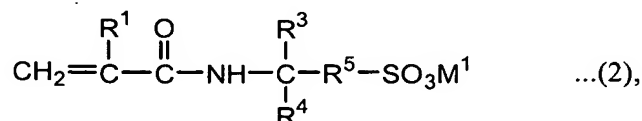
phosphorus-acid-group-containing (meth)acrylamide monomer comprising (meth)acrylamide represented by the following formula (1):



wherein R^1 is a hydrogen group or a methyl group, and R^2 is a hydrogen group or a substituted or unsubstituted hydrocarbon group, and a phosphorus acid group directly bonded to a nitrogen atom of an amide group in said (meth)acrylamide.

41 (New). The conductive resin according to claim 40, comprising at least one selected from the group consisting of unsaturated alcohol copolymers comprising an unsaturated alcohol unit and a vinyl halide unit and/or an aliphatic acid vinyl ester unit, partially acetalized unsaturated alcohol polymers, melamine resins, poly(meth)acrylonitrile, poly(meth)acrylate, polyacrylamide, poly(meth)acrylic acid, polyacetal, urethane resins, cellulose and its modified products, polystyrene, polyvinyl chloride, and polyvinyl acetate.

42 (New). The conductive resin according to claim 40, wherein said (meth)acrylamide monomer is at least one selected from the group consisting of acrylamide, methacrylamide, and acrylamide alkane sulfonate represented by the following formula (2):



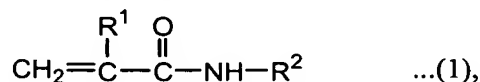
wherein R^1 is a hydrogen group or a methyl group, R^3 and R^4 are a hydrogen group or an alkyl group having 1-3 carbon atoms, R^5 is an alkylene group having 1-3 carbon atoms, M^1 is a hydrogen group, a metal or a tertiary-amine group.

43 (New). The conductive resin according to claim 40, wherein said phosphorus-acid-group-containing (meth)acrylamide polymer comprises as comonomers (a) an unsaturated compound containing one or more ethylenically unsaturated bonds and one or more acid groups in a molecule, and/or (b) an unsaturated compound containing one or more ethylenically unsaturated bonds but no acid group in a molecule.

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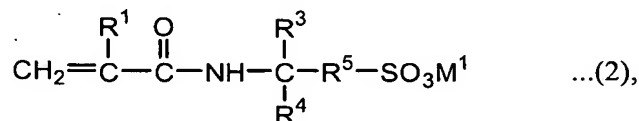
44 (New). The conductive resin according to claim 43, wherein said unsaturated compound is a cross-linking agent having two or more ethylenically unsaturated bonds in a molecule.

45 (New). A polymer electrolyte membrane made of a polymer of a phosphorus-acid-group-containing (meth)acrylamide monomer, which comprises (meth)acrylamide represented by the following formula (1):



wherein R^1 is a hydrogen group or a methyl group, and R^2 is a hydrogen group or a substituted or unsubstituted hydrocarbon group, and a phosphorus acid group directly bonded to a nitrogen atom of an amide group in said (meth)acrylamide.

46 (New). The polymer electrolyte membrane according to claim 45, wherein said (meth)acrylamide monomer is at least one selected from the group consisting of acrylamide, methacrylamide, and acrylamide alkane sulfonate represented by the following formula (2):



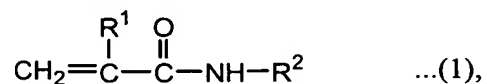
wherein R^1 is a hydrogen group or a methyl group, R^3 and R^4 are a hydrogen group or an alkyl group having 1-3 carbon atoms, R^5 is an alkylene group having 1-3 carbon atoms, M^1 is a hydrogen group, a metal or a tertiary-amine group.

47 (New). The polymer electrolyte membrane according to claim 45, wherein said polymer comprises as comonomers (a) an unsaturated compound containing one or more ethylenically unsaturated bonds and one or more acid groups in a molecule, and/or (b) an unsaturated compound containing one or more ethylenically unsaturated bonds but no acid group in a molecule.

48 (New). The polymer electrolyte membrane according to claim 45, wherein said unsaturated compound is a cross-linking agent having two or more ethylenically unsaturated bonds in a molecule.

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49 (New). A method for producing phosphorus-acid-group-containing (meth)acrylamide, comprising (a) reacting (meth)acrylamide represented by the following formula (1):



wherein R¹ is a hydrogen group or a methyl group, and R² is a hydrogen group or a substituted or unsubstituted hydrocarbon group, with phosphoric anhydride and/or phosphorus oxychloride, and hydrolyzing the resultant product, or (b) reacting said (meth)acrylamide with at least one selected from the group consisting of phosphoric acid, pyrophosphoric acid and polyphosphoric acid, in a solvent containing no active hydrogen and/or an acidic solvent.